GRUNDIG

ServiceManual

HF 45 U
Mandello 1/U
Locarno 1/U

1967

Aligning Instructions

For all models mentioned below the repair manual of HF 45 U / Mandello c/U / Locarno c/U and KS 610 U, which has been published for the manufacturing period of 1965, is valid.

AM-IF Alignment 460 kc

The sensitivity values are referred to an output power of 50 mW per channel

Band Position of Variable Capacitor	Coupling of Signal Generator	Alignment	Sensitivity	Remarks
BC Pointer at 1 Mc	G_1 EAF 801	**(III)** and **(IV)** max.	1.32 mV	Align with alternate damping (10 kΩ and 5 nF in series). IF Selectivity 1 : 100 IF Bandwidth 4 kc
	G_1 ECH 81	**(I)** and **(II)** max.	18 µV	
BC, tuned in	to antenna jack	**(V)** inner *min.*		Blocking ratio 1 : 25

AM-Oscillator and Input Circuit Alignment

Band Frequency Pointer Position	Oscillator	Input Circuit	Sensitivity µV	Image Ratio 1 :	Oscillation Current µA	Remarks
BC 560 kc	① max.	inner ③ max.	8 . . .	550	570 . . .	Final pointer pos. '1' of 510 kc. **Alignment Sequence:** BC-Oscillat., BC input circuit SW I Osc., SW I input circuit SW II Osc., SW II input circuit Align the BC input circuit. Mix. sensitivity 1 Mc at G_1 ECH 81 : 21.5 µV
BC 1450 kc	② max.	④ max.	. . . 7 . . .	550	. . . 680 . . .	
			. . . 10	200	. . . 710	
SW I 2.5 Mc	⑤ max.	⑦ max.	9 . . .	45	520 . . .	
SW I 5.5 Mc	⑥ max.	⑧ max.	. . . 10 . . .	25	. . . 620 . . .	
			. . . 10	15	. . . 626	
SW II 8 Mc	⑨ max.	⑪ max.	15 . . .	9	650 . . .	
SW II 15 Mc	⑩ max.	⑫ max.	. . . 16 . . .	8	. . . 700 . . .	
			. . . 18	7	. . . 700	

FM-IF Alignment 10.7 Mc

Modulation of Signal Generator	Coupling of Generator	Alignment	Indication	Sensitivity	Remarks
FM	G_1 EAF 801	**(a)** max.	Outputmeter	11 mV	Align with the greatest deviation (± 75 kc) Discriminator alignment with 100 mV IF at G_1 EAF 801. Adjust the control R 2 (3 Ω) in filter II with an IF voltage of 300—400 mV to max. AM-suppression (only possible with wobbling oscilloscope). R 2 is to be found above the core (b).
		(b) max.	Outputmeter		
FM	G_1 ECH 81	**(c)** max. **(d)** max	Outputmeter	170 µV	
	wire loop to ECC 85 via 0.5 pF to point (x)	**(e)** inner max. **(f)** max.			

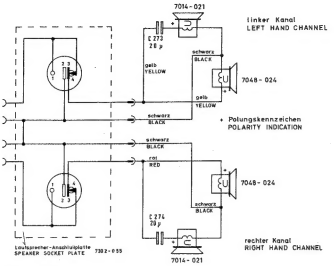
FM-Oscillator, Intermediate- and Antenna Circuit Alignment

Signal Generator Frequency	Oscillator	Intermediate Circuit	Antenna Circuit	Indication	Oscillat. Voltage	Sensitivity	Remarks
88 Mc	**(A)** max.	**(B)** max.	**(E)** max. *)	Outputmeter	2.4 . . . 2.71 =	< 3 kTo	*) For circuit **(E)** being very broad, core should be adjusted approx. 2.5 mm below the upper edge of the coil form. Coil F must not be detuned. If already detuned, remove and align it separately to 0.85 µH.
104 Mc	**(C)** max.	**(D)** max.					

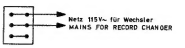
Hum: L. H. Channel / R. H. Channel, L-Pot. shut 0.5 / 0.6 mV, open 0.8 / 0.8 mV

Loudspeaker Wirings

Locarno 1/U

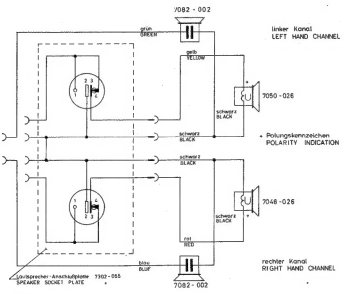


Mandello 1/U

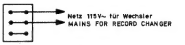


Mandello 1/U

Mandello 1/U

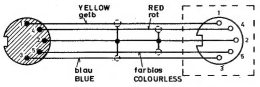


Locarno 1/U

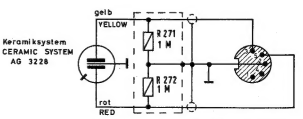


Locarno 1/U

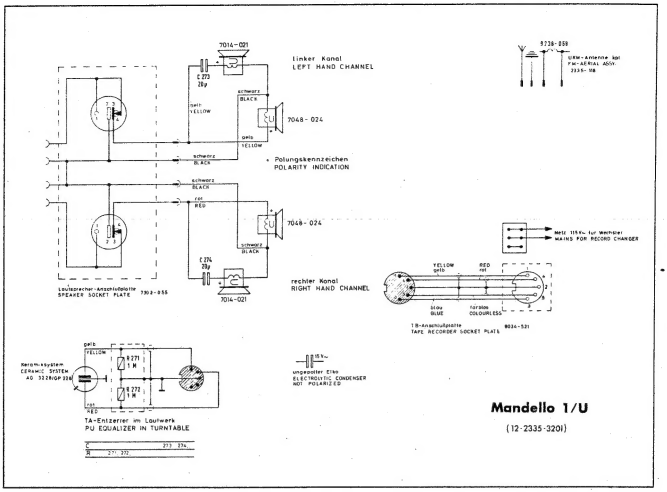
PU-Attenuator in the Changer



Mandello 1/U
Locarno 1/U

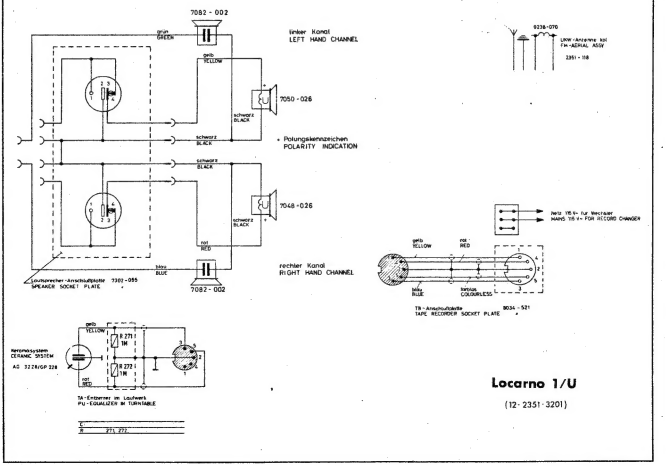


Mandello 1/U
Locarno 1/U



Mandello 1/U

(12-2335-3201)



Locarno 1/U

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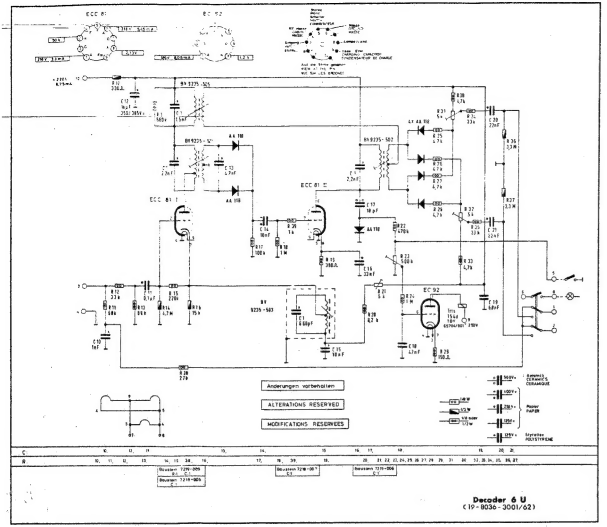

Decoder 6 U
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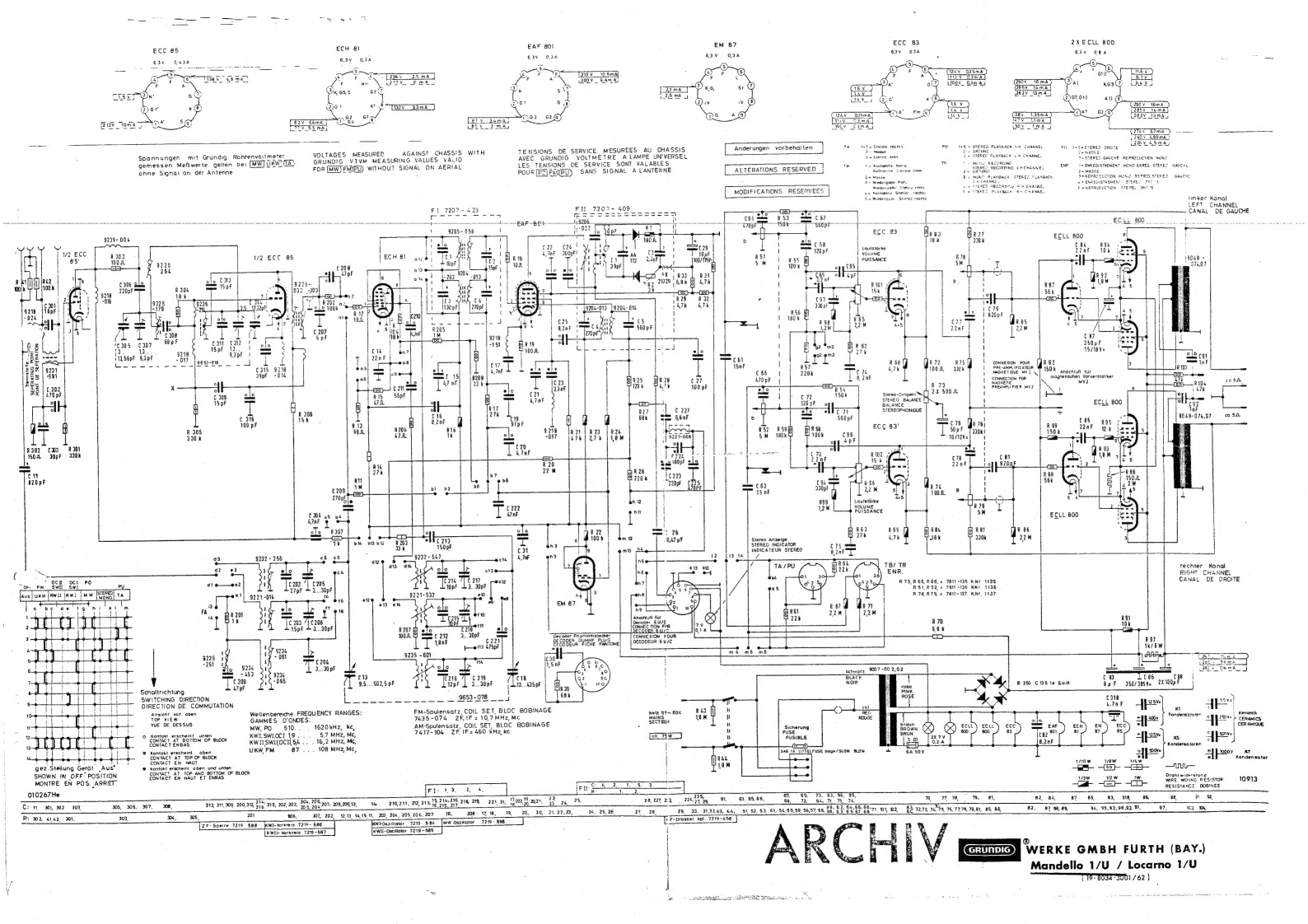

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GRUNDIG WERKE GMBH FÜRTH (BAY.)

Mandello 1/U / Locarno 1/U

[19-8034-3001/62]